

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1           1. (Original) A system for displaying a three-dimensional image of an organ  
2 or structure inside the body, the system comprising:  
3                   a processor configured to be communicatively coupled to a probe, the  
4 probe being configured to be located in or adjacent to the organ or structure inside the  
5 body;  
6                   memory coupled to the processor and configured to store image data  
7 pertaining to the organ or structure inside the body; and  
8                   a three-dimensional display coupled to the processor and configured to  
9 simultaneously display the three-dimensional image and a representation of the probe.
- 1           2. (Original) The system of claim 1, wherein the representation of the probe  
2 is registered with the three dimensional image of the organ or structure inside the  
3 body.
- 1           3. (Original) The system of claim 1, wherein the representation of the probe  
2 is registered with the three dimensional image of the organ or structure inside the  
3 body using a localization system.
- 1           4. (Original) The system of claim 1, wherein the organ or structure inside the  
2 body is a heart.
- 1           5. (Original) The system of claim 1, wherein the probe is a catheter.
- 1           6. (Original) The system of claim 1, wherein the system is an  
2 electrophysiology system.
- 1           7. (Original) The system of claim 1, wherein the image data is acquired prior  
2 to the probe being positioned inside the body.

1           8. (Original) The system of claim 1, wherein the image data is acquired  
2 during the image-guided intervention procedure using an internal medical imaging  
3 device.

1           9. (Original) The system of claim 1, wherein the system is further configured  
2 to display a map of the electrical properties of the organ or structure inside the body.

1           10. (Original) The system of claim 1, wherein the system is further configured  
2 to display historical data related to the organ or structure inside the body.

1           11. (Original) The system of claim 1, wherein the system is further configured  
2 to display auxiliary data related to an image-guided interventional procedure.

1           12. (Original) The system of claim 1, wherein the display is further  
2 configured to display visual navigational information related to an image-guided  
3 intervention procedure.

1           13. (Original) The system of claim 1, wherein the three-dimensional display is  
2 a spatial three-dimensional display.

1           14. (Original) A system for displaying a three-dimensional image of a heart,  
2 the system comprising:  
3                   a processor configured to be communicatively coupled to a probe;  
4                   memory coupled to the processor and configured to store image data  
5 pertaining to the heart; and  
6                   a three-dimensional display coupled to the processor and configured to  
7 simultaneously display the three-dimensional image of the heart and a representation  
8 of the probe.

1           15. (Original) The system of claim 14, wherein the representation of the probe  
2 is registered with the three dimensional image of the heart.

1           16. (Original) The system of claim 14, wherein the representation of the probe  
2 is registered with the three dimensional image of the heart using a localization system.

1           17. (Original) The system of claim 14, wherein the system is an  
2 electrophysiology monitoring system.

1           18. (Original) The system of claim 14, wherein the probe is a catheter  
2 configured to collect data representative of the electrical properties of the heart.

1           19. (Original) The system of claim 14, wherein the system is further  
2 configured to display a map of the electrical properties of the heart.

1           20. (Original) The system of claim 14, wherein the three-dimensional display  
2 is a spatial three-dimensional display.

1           21. (Original) A system for displaying a three-dimensional image of an organ  
2 or structure inside the body, the system comprising:

3                   a processor configured to be communicatively coupled to a probe, the  
4 probe being configured to be located in or adjacent to the organ or structure inside the  
5 body and to collect data representative of the electrical properties of the organ or  
6 structure inside the body;

7                   memory coupled to the processor and configured to store image data  
8 pertaining to the organ or structure inside the body; and

9                   a three-dimensional display coupled to the processor and configured to  
10 display the three-dimensional image and a map of the electrical properties of the  
11 organ or structure inside the body.

1           22. (Original) The system of claim 21, wherein the display is further  
2 configured to simultaneously display a representation of the probe, wherein the  
3 representation of the probe is registered with the three dimensional image of the organ  
4 or structure inside the body.

1           23-28 Cancelled.

1           29. (Original) A system for displaying a three-dimensional image of an organ  
2 or structure inside the body, the system comprising:

3 memory configured to store a first set of image data pertaining to the  
4 organ or structure inside the body;  
5 a processor coupled to the memory and configured to be  
6 communicatively coupled to an imaging device and a probe, the  
7 imaging device being configured to generate a second set of image  
8 data pertaining to the organ or structure inside the body, and the probe  
9 being configured to be located in or adjacent to the organ or structure  
10 inside the body, the processor further configured to generate the three-  
11 dimensional image using the first set of image data and the second set  
12 of image data; and  
13 a three-dimensional display coupled to the processor and configured to  
14 simultaneously display the three-dimensional image and a  
15 representation of the probe.

1 30. (Original) The system of claim 29, wherein the system is configured to  
2 provide a warning related to an image-guided interventional procedure.

1 31. (Original) The system of claim 29, wherein the system is configured to  
2 provide a warning when the first set of image data differs from the second set  
3 of image data according to a predetermined criterion.

1 32. (Original) The system of claim 29, wherein the system is configured to  
2 determine a first estimate of the location of the probe and a second estimate of  
3 the location of the probe and to provide a warning when the first estimate  
4 differs from the second estimate according to a predetermined criterion.